Developing Aerospace Leaders, Shaping the Air Force Future



THEATER AIRPOWER VISUALIZATION

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A1230 Force Packaging (TAV Package Q Replay)





A1250 AFEX AIR FORCE EMPLOYMENT EXERCISE



A1250 AFEX





- Primary emphasis: students learn to use TAV user interface to plan and control air missions
- Students explore and apply academic lesson material taught in first week: A1210 Air and Space Systems and Capabilities, A1220 Air and Space Power Functions, A1230 Force Packaging
- Orients students to AOR (prep for A1380 AIRGAP) through combat execution
- Experiential learning and decisionmaking
- Stimulates student questions and discussion about initial academics – use the opportunities to TEACH



A1250 AFEX





- Classroom is divided into four WOC teams plus a central AOC cell to plan and coordinate operations
- Each WOC is assigned a combat wing with flights of F-15/F-16 aircraft loaded to perform various roles
- AOC develops an informal mission plan and WOCs command force packages to achieve air dominance through SWEEP/SEAD/STRIKE
- Two WOCs on each coast work as a team against an assigned coastal target area
- Team East attacks 3 enemy airbases on east coast
 Team West attacks 3 enemy airbases on west coast



A1370 Team Forces





- Each student WOC team commands a Coalition F-15 or F-16 wing at an airbase:
 - Primary mission aircraft loaded with bombs: BSU-50 2,000# and BSU-49 500#
 - Sweep/Escort aircraft loaded with counterair and SEAD loads



Detached Support





- Each WOC has a dedicated tanker track and tankers.
 Tankers fly to the tracks but may be retasked anywhere
- Each WOC owns either an E-3 AWACS or RC-135 Rivet
 Joint. Assets fly to their track but may be retasked
 - AWACS detects airborne enemy aircraft but doesn't identify types
 - Rivet Joint identifies airborne enemy aircraft as well as enemy search radars





A1250 AFEX



- Only six airbases with MiGs are displayed on AOR map
- Three target airbases on each coast
- JIPTL prioritizes targets based on aircraft type at enemy airbase





A1250 Teaching Tips



- Take time to play the scenario yourself so you know it well
- Focus your students on winning air superiority and attacking their target airbases with fighter-bombers
- Point out weapon differences (missile types and bomb types) to better prepare for AIRGAP
- Let students have fun playing TAV and learning the interface
- The more students play, the more they learn about airpower!





A1380 AIRGAP DISTINCTIVE CAPABILITIES EXERCISE



A1380 AIRGAP





- Primary emphasis of block is exploring and reinforcing the six USAF Distinctive Capabilities
- Exercise also highlights many of the USAF Air and Space Power Functions
- Emphasizes teamwork between 4 discrete forces and integration/synchronization of diverse operations. Builds on AFEX basic teamwork
- Prepares students for Joint Air Estimate Process (JAEP) module of lessons
- Prepares students for Blue Thunder III capstone wargame



A1380 AIRGAP



Objectives for each AIRGAP team:

- Information Superiority
 Maintain situational awareness over AOR
 Find strategic targets for Global Attack team
- Air Superiority
 Neutralize enemy MiG and SAM forces
 Protect forces from other teams
- Rapid Global Mobility & Agile Combat Support NEO US civilians, deliver Patriot battery, and sustain Coalition air operations
- Global Attack & Precision Engagement Neutralize enemy C3 and WMD
- Counterland (Artificial Intelligence Player)
 Repel enemy ground invasion



Threat Environment





- Threats cued by early warning search radars, and controlled by command nodes for effects-based targeting
- MiGs with radar and IR air-to-air missiles are aggressively patrolling enemy airspace:
 - Su-30 Flanker (AA-12 Adder) AIRGAP ONLY
 - MiG-29A Fulcrum (AA-10 Alamo)
 - MiG-23ML Flogger (AA-7 Apex)
 - MiG-21MF Fishbed (AA-2 Atoll)
- Airspace is defended by dense IADS surface-to-air missile (SAM) network of SA-2, SA-3, and SA-5 (no SA-5 in A1370) plus MiG interceptors, and anti-aircraft artillery (AAA)
- Threats are similar to those seen in Blue Thunder III











A1380 AIRGAP Debrief



Debriefing Resources



- To the extent TAV software permits, AIRGAP is scored to match EXORD objectives (Centralized Control, Decentralized Execution).
- Right-click in the second box from the lower left on the interface for debrief menu

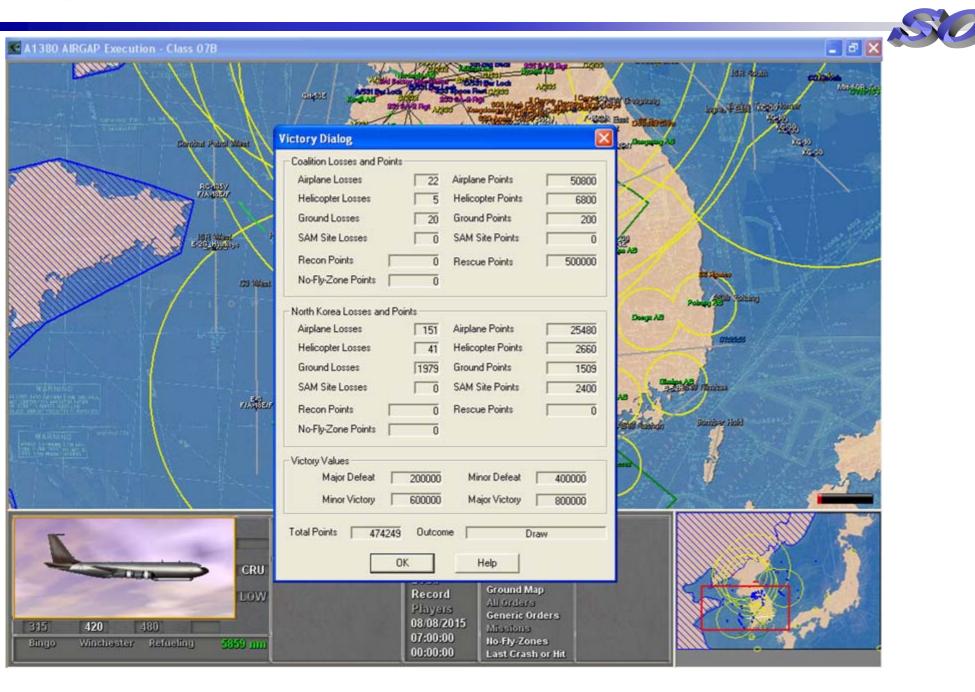






Victory Conditions







Crashed Flights



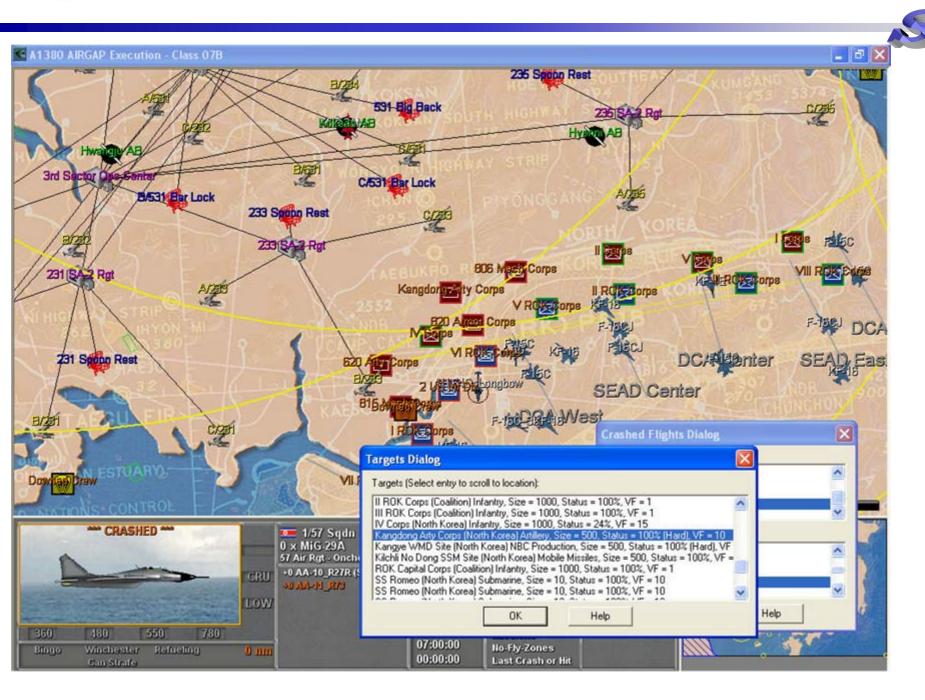






Target Status

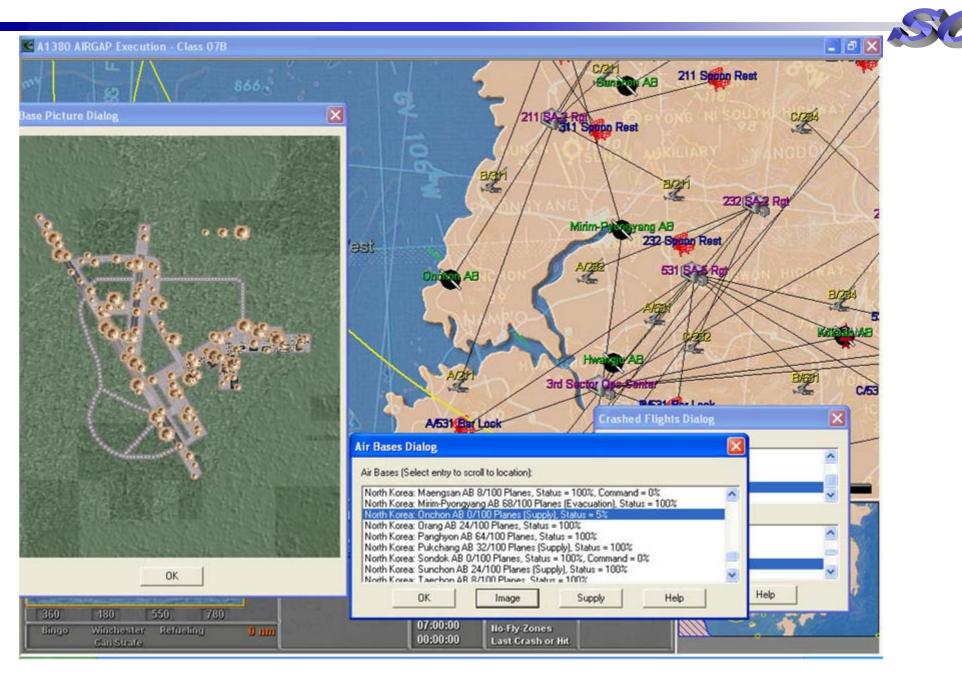






Airbase Results







Prioritized Target List





Target	Status	Attacks	Est Damage	^	
Kilchli No Dong SSM Site (??	??	??	1	
Kangye WMD Site (Target)	??	??	??		
620 Arty Corps (Target)	??	??	??		
Kangdong Arty Corps (Target)	??	??	??		
1st Sector Ops Center (Com	??	??	??		
Onchon AB (Air Base)	??	0	0%		
511 SA-5 Rgt (Command N	??	0	0%		
Pukchang AB (Air Base)	??	0	0%		
3rd Sector Ops Center (Com	??	??	??		
211 SA-2 Rgt (Command N	??	??	??	10	
311 SA-3 Rgt (Command N	??	??	??		
531 SA-5 Rgt (Command N	??	0	0%		
2nd Sector Ops Center (Co	??	??	??		
321 SA-3 Rgt (Command N	??	??	??		
Sunchon AB (Air Base)	??	0	0%		
231 SA-2 Rgt (Command N	??	??	??		
233 SA-2 Rgt (Command N	??	??	??		
235 SA-2 Rgt (Command N	??	??	??		
232 SA-2 Rgt (Command N	??	??	??		
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EST CA E Dat (Command N	22	n	0%		

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Questions?



Today's Young Warriors -- Tomorrows Chiefs



SUMMARY



- Overview
- Air and Space Basic Course Background
- Expeditionary Airbase Simulation
- Theater Airpower Visualization
- Summary